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## FOREIGN AEROSPACE SCIENCE AND TECHNOLOGY CENTER



METHOD OF LOCAL MOLDING OF THERMOPLASTICS

by

V.I. Tseyler, A.T. Kutserubov



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METHOD OF LOCAL MOLDING OF THERMOPLASTICS

By: V.I. Tseyler, A.T. Kutserubov

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# U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	А а	А, a	Р р	Р р	Р, r
Б б	Б б	В, b	С с	С с	С, s
В в	В в	В, v	Т т	Т т	Т, t
Г г	Г г	Г, g	У у	У у	У, u
Д д	Д д	Д, d	Ф ф	Ф ф	Ф, f
Е е	Е е	Ye, ye; Е, e*	Х х	Х х	Kh, kh
Ж ж	Ж ж	Zh, zh	Ц ц	Ц ц	Ts, ts
З з	З з	Z, z	Ч ч	Ч ч	Ch, ch
И и	И и	I, i	Ш ш	Ш ш	Sh, sh
Я я	Я я	Y, y	Щ щ	Щ щ	Shch, shch
К к	К к	K, k	Ђ ђ	Ђ ђ	"
Л л	Л л	L, l	Ӯ Ӯ	Ӯ Ӯ	Y, y
М м	М м	M, m	Ӱ Ӱ	Ӱ Ӱ	"
Н н	Н н	N, n	Ӭ Ӷ	Ӭ Ӷ	E, e
О о	О о	O, o	Ӯ Ӯ	Ӯ Ӯ	Yu, yu
П п	П п	P, p	Ӯ Ӯ	Ӯ Ӯ	Ya, ya

\*ye initially, after vowels, and after є, ѕ; e elsewhere.  
When written as є in Russian, transliterate as yє or є.

## RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	$\sinh^{-1}$
cos	cos	ch	cosh	arc ch	$\cosh^{-1}$
tg	tan	th	tanh	arc th	$\tanh^{-1}$
ctg	cot	cth	coth	arc cth	$\coth^{-1}$
sec	sec	sch	sech	arc sch	$\operatorname{sech}^{-1}$
cosec	csc	csch	csch	arc csch	$\operatorname{csch}^{-1}$

Russian	English
rot	curl
lg	log

## GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

Page 1.

379402.

#### METHOD OF LOCAL MOLDING OF THERMOPLASTICS.

V. I. Tseyler and A. T. Kutserubov.

Invention relates to region of treatment/processing plastics into articles.

Are noted methods of local molding of thermoplastics by rigid male die/punch, by stamping, by pneumo-vacuum forming/molding, etc.

Using proposed method the heated thermoplastic material is deformed by ferromagnetic male die/punch, which interacts with magnetized matrix/die. This execution of method simplifies molding parts in the almost inaccessible places.

Method is accomplished/realized as follows.

Ferromagnetic male die/punch they place into necessary place for part (for example, inside tube/pipe, reservoir, etc.). Material they heat before the softening, feed matrix/die (for example, outside the tube/pipe, reservoir, etc.) and magnetize it. During interaction of

ferromagnetic male die/punch with the magnetized matrix/die the deformation of material occurs.

Method makes it possible to perform local stamping operations, and to also mold different grooves, moving magnetized matrix/die (and together with it male die/punch) relative to molded part.

Object/subject of invention.

The method of the local molding of thermoplastics by rigid male die/punch, that is characterized by the fact that for the purpose of its simplification during the molding in the almost inaccessible places of parts, the heated thermoplastic material is deformed by the ferromagnetic male die/punch, which interacts with the magnetized matrix/die.